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C-583-3-7-71 March 20, 1987

Preliminary Assessment Bristol Babcock Company Waterbury, Connecticut

TDD No. F1-8701-12 Reference No. \$375CTB7PA **CERCLIS No. CTD981898406**

INTRODUCTION

The NUS Corporation Field Investigation Team (NUS/FIT) was requested by the Waste Management Division of the Region I U.S. Environmental Protection Agency (EPA) to perform a Preliminary Assessment (PA) of the Bristol Babcock Company facility in Waterbury, Connecticut (Figures 1 and 2). This work was completed under Technical Directive Document (TDD) No. F1-8701-12 issued in January 1987.

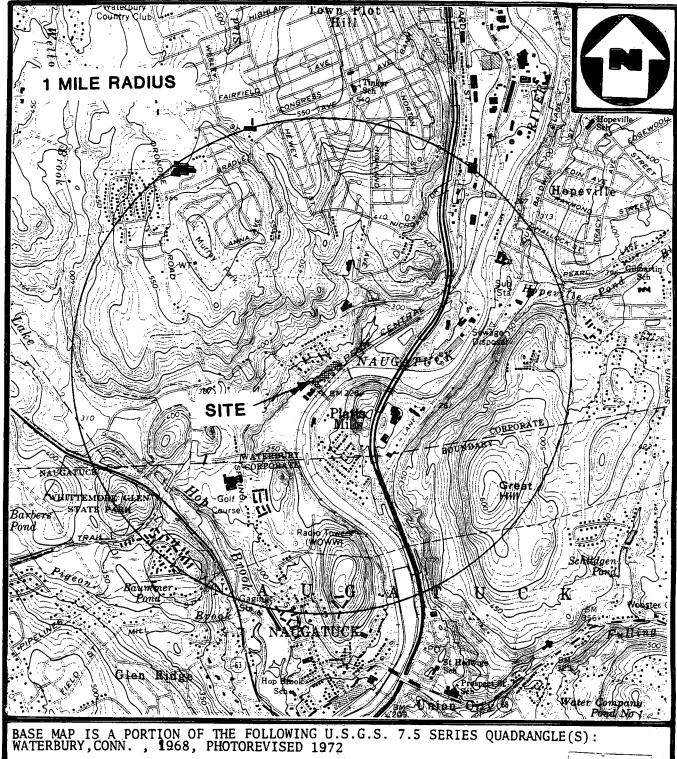
This Preliminary Assessment complies with the requirements set forth under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended. It does not necessarily fulfill the requirements of other EPA regulations such as those under the Resource Conservation and Recovery Act (RCRA). The Preliminary Assessment is not intended to be a definitive study of the site, so it is not suitable for use in planning site remediation or undertaking enforcement actions against potentially responsible parties. The Preliminary Assessment represents the first step of the site screening process set forth by the National Contingency Plan (NCP).

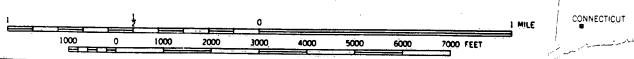
Bristol Babcock Company, hereafter referred to as Bristol Babcock, is listed on the Connecticut Inventory of Hazardous Waste Sites because of the alleged presence of metal hydroxide sludge lagoon. For this reason, the Connecticut Department of Environmental Protection (CT DEP) requested that EPA investigate the site.

FACILITY DESCRIPTION AND HISTORY

Bristol Babcock Company at 40 Bristol Street is a large industrial facility located in a residential area. Formerly American Chain and Cable, Bristol Babcock is a manufacturer of pneumatic, electrical, and mechanical controlling systems. Electroplating operations utilize organic compounds in the cleaning and degreasing process. American Chain and Cable was involved in similar operations at the site. Bristol Babcock is in the process of selling the facility and moving to a new location (MacKenzie, 1987c).

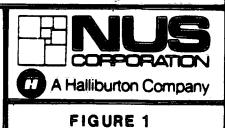
The company is listed as a large quantity generator of hazardous waste under RCRA. Since 1973, an NPDES permit has allowed Bristol Babcock to discharge, under specific conditions, treated metal finishing wastewater and cooling water to the Naugatuck River. Although a 1985 permit violation was issued by the CT DEP for high concentrations of cyanide and cadmium, Bristol Babcock is presently in full compliance with provisions of CT DEP Order No. 2499 (CT DEP, 1985).

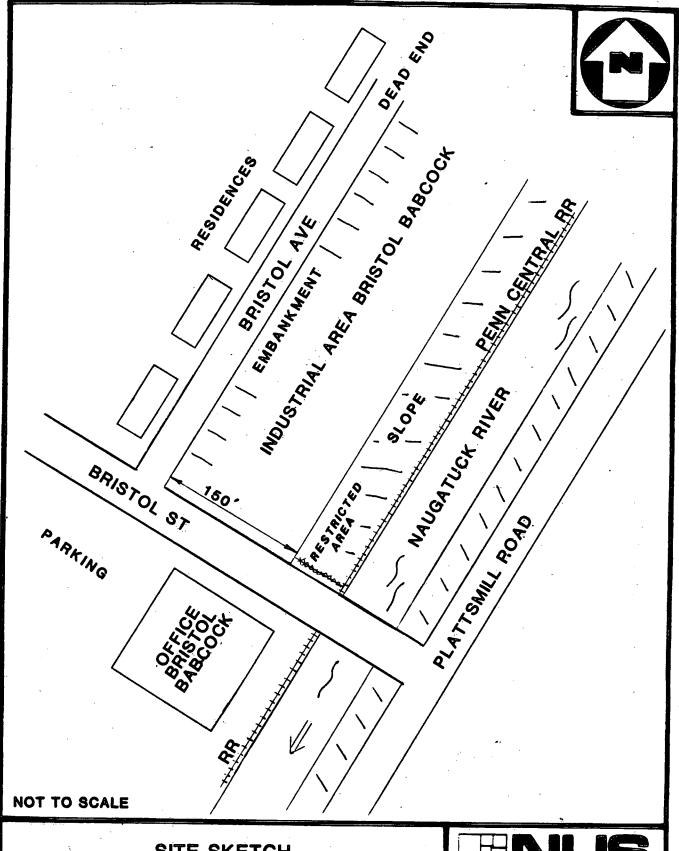




LOCATION MAP

BRISTOL BABCOCK COMPANY WATERBURY, CT





SITE SKETCH
BRISTOL BABCOCK COMPANY
WATERBURY, CT



FIGURE 2

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A variety of organic compounds such as trichloroethylene, chloroform, methyl chloride, and toluene are used as solvents in the plant's degreasing process (Bristol, 1984). After repeated use, these solvents develop a sludge consistency containing a host of metal contaminants. Bristol Babcock uses a licensed RCRA transporter to dispose of sludge waste. Current annual estimates of sludge removal are nickel, 2,000 gal; copper, 1,200 gal; chromium, 1,200 gal; and floor spill treatment, 33,000 gal (DEP, 1981). Prior to RCRA, the use of a sludge lagoon was a common method of many companies for immobilizing plating wastes.

Bristol Babcock is listed on the Connecticut Inventory of Hazardous Waste Sites because of an alleged onsite metal hydroxide sludge lagoon. However, no documentation of this lagoon was found in state files and a 1983 state inspection found no evidence of onsite disposal of wastes. Although the state inspection did identify the site as having a history of onsite disposal of hazardous waste, the type of disposal was not listed in the state files. The inspection simply states that prior to 1972, unidentified industrial waste was discharged onsite, there was no mention of a sludge lagoon. Also during this time, solvents were burned onsite, and plating sludge was transported to a private landfill in Dover, NY (MacKenzie, B., 1987b).

ENVIRONMENTAL SETTING

Bristol Babcock is located less than fifty feet from the Naugatuck River (Figure 2). The area between the facility and the river is restricted by a fence. The site represents the largest industrial facility in a primarily urban residential area.

The town of Waterbury is served by a network of three storage and two distribution reservoirs located approximately eight miles north of the site. The system serves 103,615 of Waterbury's 103,800 residents (CT DEP, 1980). There are no public wells in Waterbury, and the location of the town's private wells, which serve 185 residents, has not been identified.

The overburden material in the area is composed predominantly of sand and gravel. Because of the site's steep topography and proximity to the river, it is likely any mobile onsite contaminants would migrate as either runoff or groundwater to the Naugatuck River. The Naugatuck River is a major Connecticut waterway used primarily for recreational purposes.

CONCLUSIONS AND RECOMMENDATIONS

Although Bristol Babcock is listed on the Connecticut Inventory of Hazardous Waste Sites because of the alleged presence of a hydroxide sludge lagoon, no further evidence has been found by this investigation to substantiate this allegation. However, if Bristol Babcock or previous owners are identified as having used an onsite metal hydroxide sludge lagoon, organic and inorganic compounds may remain onsite.

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Although no physical evidence of the sludge lagoon has been identified, the quantities of waste generated and the proximity of the site to the Naugatuck River and possibly to private wells leads NUS/FIT to recommend that a Site Inspection of medium priority be conducted to better assess possible contamination at the site. The previous policies and procedures of Bristol Babcock and American Chain and Cable should be carefully evaluated to verify the existence of the sludge lagoon. The inspection should include the collection and analysis of groundwater and soil samples and upstream and downstream river water and sediment samples.

Submitted By:

Brian MacKenzie Project Manager

Approval:

R. DiNitto

Regional Manager

BM/mtb

REFERENCES

Bristol Babcock. 1984. Solvent Management Plan.

CT DEP. 1980. Survey of Major Water Utilities in Connecticut.

CT DEP. 1981. Water Compliance Unit, Interdepartment Message 10-30-81.

CT DEP. 1985. NPDES Permit. Bristol Babcock (1-11-85)

MacKenzie, B. (NUS/FIT). 1987a. Telecon with Robin Lind (EPA) Re: RCRA status, January 26.

MacKenzie, B. (NUS/FIT). 1987b. Telecon with Rich Pease (CT DEP), Re: History of site, February 2.

MacKenzie, B. (NUS/FIT). 1987c. Telecon with Frank Santoli (Bristol Babcock), Re: Site History.

State Geological and Natural History Survey of Connecticut. 1967. (Waterbury Quadrangle), Report No. 22.

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

| PART 1 | - SITE INFORMAT | | | ENT | CT I | 981898406 |
|--|--|--------------|----------------------------------|--|------------|------------------------|
| II. SITE NAME AND LOCATION | | | | ······································ | | |
| 01 SITE NAME (Legal, common, or descriptive name of site) | | 02 STREE | T, ROUTE NO., OR | SPECIFIC LOCATION | IDENTIFIER | |
| Bristol Babcock Company | | 40 F | ristol S | troot | | |
| 03 CITY | | | 05 ZIP CODE | | | 07COUNTY 08 CON |
| Waterbury | | CT | 06708 | New Haven | | CODE DIST |
| The state of the s | IGITUDE | O.L | 00700 1 | New Havel | ·* | 1 09 1 |
| 4 <u>1° 31' 30" 73° 3'</u> | | | | | | |
| O DIRECTIONS TO SITE (Starting from nearest public road) | <u> </u> | | | | | |
| Take Rt. 84 south. Continue of Site is across Naugatuck River | to Plattsmil | 1 Ros | d, then i | head west of | to Bris | tol Street. |
| III. RESPONSIBLE PARTIES | | | | | | |
| 01 OWNER (If known) | | 02 STREE | T (Business, mailing, re | sidential) | | |
| Bristol Babcock Company | | 40 E | ristol S | treet | | |
| 03 CITY | | 04 STATE | 05 ZIP CODE | 06 TELEPHONE | NUMBER | |
| Waterbury | | CT | 06708 | (203 575 | 5-3000 | |
| 07 OPERATOR (If known and different from owner) | | 08 STREE | T (Business, mailing, r | sidential) | · | |
| Frank Santoli | | 40 E | ristol S | treet | | |
| D9 CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE | NUMBER | - |
| Waterbury Connecticut | | CT | 06708 | 203 575 | 5-3455 | |
| MYES DATE 10 26 81 A.I | B. UNCONTROLL BEA B. EPA LOCAL HEALTH OFFI BACTOR NAME(S): 03 YEARS OF OPERA B. OR ALLEGED azardous Wa 30 a 1982 Wa | CONTRACIAL E | CTOR STORMS TO THE STORMS ENDING | C. STATE | D. OTHER | CONTRACTOR N a metal |
| DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND Metal hydroxide or other indadjacent to the Naugatuck River migrate to the river. V. PRIORITY ASSESSMENT DI PRIORITY FOR INSPECTION (Check one. If high or medium is checked. A HIGH Inspection required promptly) (Inspection required) VI. INFORMATION AVAILABLE FROM | dustrial was ver. Contai | ni nan | n 3 Description of Ha. | cesent, wo | uld mos | st likely |
| Rich Pease | CT DEP | | | | | 203 366-884 |
| and the contract of the contra | , | | | | | |
| 04 PERSON RESPONSIBLE FOR ASSESSMENT | 05 AGENCY | 06 ORG | ANIZATION | 07 TELEPHON | ENUMBER | 08 DATE |



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

CT D981898406

| II. WASTE S | TATES, QUANTITIES, AN | ID CHARACTER | ISTICS | | | | | |
|---------------|--|---|--|--|--|---|---|--|
| 01 PHYSICAL S | TATES (Crieck all linat apply) E. SLURRY R. FINES F. LIQUID E. G. GAS | 02 WASTE QUANT (Measures of must be TONS) CUBIC YARDS | ITY AT SITE of waste quantities independents | B. CORROSIVE F. INFECTIOUS J. C. RADIOACTIVE M.G. FLAMMABLE J. L. D. PERSISTENT M.H. IGNITABLE J. L. | | BLE L. HIGHLY | I. HIGHLY VOLATILE J. EXPLOSIVE K. REACTIVE L. INCOMPATIBLE M. NOT APPLICABLE | |
| | (Specify) | NO. OF DRUMS | | | | | | |
| II. WASTE T | YPE | | ···· | | | · | | |
| CATEGORY | SUBSTANCE N | AME | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS | ···· | | |
| SLU | SLUDGE | | unknown | | The foll | lowing substa | nces are | |
| OLW | OILY WASTE | | | | | n toxic organ | | |
| SOL | SOLVENTS | <u> </u> | unknown | | generated as a result of the | | | |
| PSD | PESTICIDES | | | | | degreasing p | | |
| occ | OTHER ORGANIC CI | HEMICALS | | | (3). If a sludge lagoon was | | | |
| IOC | INORGANIC CHEMIC | ÄLS | | | used as a means of disposal, | | | |
| ACD | ACIDS | | | | it could contain similar | | | |
| BAS | BASES | | | | organics | and inorgan | ics. | |
| MES | HEAVY METALS | | unknown | | Take a section of the | | | |
| V. HAZARD | OUS SUBSTANCES (See A | opendix for most frequen | tly cited CAS Numbers) | | | | | |
| 1 CATEGORY | 02 SUBSTANCE N | AME | 03 CAS NUMBER | 04 STORAGE/DISPOSAL METHOD 05 CONCENTRATIO | | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION | |
| SLÜ | trichloroethy | l ene | 79-01-6 | These substances unknown | | | | |
| SLU | 1,1,1-trichlo | | 253-23-891 | | | unknown | | |
| SLU | tetrachloroet | | 127-18-4 | | | unknown | <u> </u> | |
| SLU | chloroform | | 67-66-3 | onsite metal | | unknown | <u> </u> | |
| SLU | methyl chlori | ie | 7487 | hydroxide | al udaa | unlenown | | |
| SLU | toluene | | 108883 | lagoon (2) | | unknown | | |
| SLU | dimethyl phtha | late | 131113 | Tagoon (2) | · · · | unknown | | |
| MES | nickel | | 7440020 | | | unknown | | |
| MES | copper | | 7440508 | | | unknown | | |
| MES | chromium | | 7440473 | | -1 111 111 111 | unknown | | |
| | · · · · · · · · · · · · · · · · · · · | | <u> </u> | | | | . | |
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| | | ······································ | <u> </u> | <u>l.,,</u> | <u>,</u> | | <u></u> | |
| . FEEDSTO | CKS (See Appendix for CAS Numb | 9/8) | · | | | | | |
| CATEGORY | 01 FEEDSTOO | K NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDST | OCK NAME | 02 CAS NUMBER | |
| FDS | | | | FDS | | | | |
| FDS | | | | FDS | | | | |
| FDS | | 111111 | | FDS | | | | |
| FDS | | | | FDS | | | | |
| | | | | | | <u>+</u> | · | |

- 2. Bristol Babcock. 1984. Solvent Management Plan.
- 3. CT DEP. 1985. NPDES Permit. Bristol Babcock (1/11/85).

SEPA

I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS 01 STATE 02 SITE NUMBER CT D981898406

| FARTO DECORPTION OF IT | WENTERSON ACUTE LIGHT WITH MAINEU | 10 | |
|--|--|---------------|----------------|
| II. HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 MA. GROUNDWATER CONTAMINATION | 02 - OBSERVED (DATE:) | (9/POTENTIAL | ☐ ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: unknown | 04 NARRATIVE DESCRIPTION | · _ | |
| Contamination from an alleged ons | | | |
| because the site's topography and | proximity to the Naugatuck | River, on | impact on |
| local private wells seem improbab | le. Also 998% of the popula | ation is on a | nunicipal |
| water supply (5). | | | · |
| 01 LYB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | ☐ ALLEGED |
| | | | , |
| Although there have been violatio | ns of the NPDES permit, the | ere is no spe | ecific |
| incident of surface water contami | | Runoff fro | om potentiall |
| contaminated soil could discharge | to Naugatuck River (4). | | |
| 01 ☐ C. CONTAMINATION OF AIR | 02 C OBSERVED (DATE:) | ☐ POTENTIAL | ☐ ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | | |
| | | | |
| • | • | | |
| N/A | | | |
| | | | |
| 01 D. FIRE/EXPLOSIVE CONDITIONS | 02 OBSERVED (DATE:) | ☐ POTENTIAL | ☐ ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | | |
| | | | • |
| | | | |
| N/A | | | |
| | | | |
| 01 DE DIRECT CONTACT | 02 GBSERVED (DATE:) | S-POTENTIAL. | ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: unknown | 04 NARRATIVE DESCRIPTION | | |
| Who sime is marked and 11 and | 1 6 | | 4.4 |
| The site is restricted on all side | es by a rence. Direct cont | act would be | e limited |
| to company employees. | | | |
| | · | | |
| 01 LF. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: unknown | 02 OBSERVED (DATE:) | POTENTIAL | ☐ ALLEGED |
| (Acres) | 04 NARRATIVE DESCRIPTION | | |
| A 1962 P-5 report identifies indu | strial waste discharge to s | tream and gr | ound. The |
| site is also listed as having a m | | | |
| · · · · · · · · · · · · · · · · · · · | , | (1) | |
| | • | | |
| 01 G. DRINKING WATER CONTAMINATION unknown | 02 - OBSERVED (DATE:) | POTENTIAL | ☐ ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | | |
| As explained in section A above, | | ater contami | nation |
| resulting from the sludge lagoon, | is low. | | • |
| • | | | |
| | • | | |
| 01 TY H. WORKER EXPOSURE/INJURY unknown | 02 OBSERVED (DATE:) | LY POTENTIAL | ALLEGED |
| 03 WORKERS POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | | 1 4T T 144 V 1 |
| Although the potential for worker | | result from | onging |
| activities, the sludge lagoon may | still pose a hazard. | | |
| | • | | ' |
| | · | | |
| 01 MI. POPULATION EXPOSURE/INJURY UNKNOWN | 02 GBSERVED (DATE:) | D/POTENTIAL | ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | - COLUMN | - WELEGER |
| If a sludge lagoon does exist, the | e main receptor would be th | e Nangatuck | River. |
| Therefore, the potential for expos | sure would come from the re | creational . | se of the |
| river. | and the come troub the te | Creational (| ee of file |
| 11 VOL • | | | |
| | | | |

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

CT D981898406

| All o begoni the or all begoning the begonin |
|--|
| II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued) |
| 01 🗹 J. DAMAGE TO FLORA 02 🗆 OBSERVED (DATE:) 🔟 POTENTIAL 🗆 ALLEGED 04 NARRATIVE DESCRIPTION |
| Contaminants from this site could affect aquatic flora in the Naugatuck River. |
| 01 DK. DAMAGE TO FAUNA 02 DESCRIPTION (include name(s) of species) |
| Contaminants from this site could affect aquatic fauna in the Naugatuck River. |
| 01 D/L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE:) D/POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION |
| Contaminants could affect organics in the Naugatuck River, which is used for recreational fishing. |
| 01 DVM. UNSTABLE CONTAINMENT OF WASTES (Splitts/runoff/standing liquids/leaking drums) 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION |
| If the lagoon does exist, the stored contaminants may be very unstable and mobile. It is unknown whether the lagoon was lined. |
| 01 |
| N/A |
| 01 🗹 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 🗆 OBSERVED (DATE:) 🗆 POTENTIAL 🗆 ALLEGED 04 NARRATIVE DESCRIPTION |
| Bristol Babcock has had violations of its NPDES permit for higher-than-permitted concentrations of cyanide and cadmium discharged to the river. |
| 01 © P. ILLEGAL/UNAUTHORIZED DUMPING 02 © OBSERVED (DATE:) POTENTIAL © ALLEGED 04 NARRATIVE DESCRIPTION |
| N/A |
| 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS |
| It is unknown how many private wells are within one mile of the site. There |
| are approximately 1,558 resdients who live within one mile of the site and 99% of Waterbury is served by a municipal supply system. The Naugatuck River |
| is mostly used for recreational purposes. |
| III. TOTAL POPULATION POTENTIALLY AFFECTED: unknown |
| IV. COMMENTS |
| Bristol Babcock was formerly owned by American Chain and Cable, and is currently for sale. |
| V. SOURCES OF INFORMATION (Cite specific references, e. g., state lifes, sample analysis, reports) |
| 1. CT DEP. 1981. Water Compliance Unit, Interdepartment Message 10-30-81. |
| 2. CT DEP. 1980. Survey of Major Water Utilities in Connecticut. |